

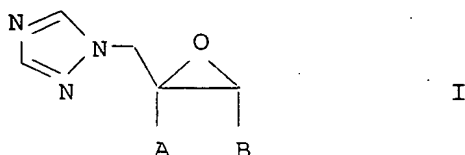
Preparation 1,2,4-triazolylmethyloxiranes

Abstract

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The present invention relates to a process for the preparation of 1,2,4-triazol-1-ylmethyloxiranes of the formula I

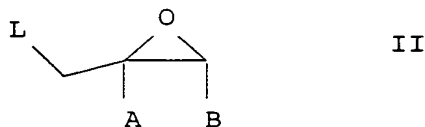
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15 in which A and B are identical or different and, independently of one another, are C₁-C₄-alkyl, phenyl-C₁-C₂-alkyl, C₃-C₆-cycloalkyl, C₃-C₆-cycloalkenyl, tetrahydropyranyl, tetrahydrofuranyl, dioxanyl or phenyl, where the phenyl radical can carry one to three substituents chosen from the group: halogen, nitro, C₁-C₄-alkyl, C₁-C₄-alkyloxy, phenoxy, amino, C₁-C₂-haloalkyl or phenylsulfonyl, which comprises reacting

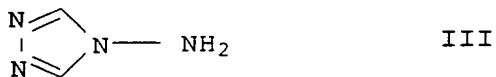
a) an oxirane of the formula II

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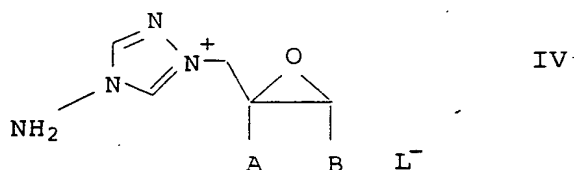


30 in which A and B have the meanings given above and L is a nucleophilically substitutable leaving group, with 4-amino-1,2,4-triazole of the formula III

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45 to give 4-amino-1,2,4-triazolium salts of the formula IV and

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b.) deaminating the 4-amino-1,2,4-triazolium salts IV with alkali metal nitrites and acid or organic nitrites to give 1,2,4-triazol-1-ylmethyloxiranes of the formula I,

5 and to 4-aminotriazolium salts of the formula IV as intermediates.

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